

Port Terminal Insights & Recommendations

Operational Overview

Insight

- Delay rate remains high at 56 percent despite strong operational volume.
- ATL handles the majority of container traffic.
- Monthly delay trends show recurring performance fluctuations.

Recommendation

- Prioritize operational improvements in ATL.
- Investigate root causes behind peak delay months.
- Align equipment allocation with delay concentration areas.

Delay Deep Dive

Insight

- Delay is concentrated in specific berths, particularly B and Q24.
- Container and Break Bulk vessels experience the highest delay rates.
- Idle time is significantly higher in delayed operations.

Recommendation

- Reassess vessel allocation across high-delay berths.
- Improve scheduling for high-impact vessel classes.
- Reduce idle time before operations to improve flow efficiency.

Damage Rate Analysis

Insight

- Damage rate stands at 2.7 percent and remains consistent across most categories.
- Berth Q21 shows higher damage concentration.
- Certain equipment units contribute disproportionately to damage incidents.

Recommendation

- Conduct targeted inspection and maintenance for high-risk equipment.
- Implement additional handling training in higher-risk berths.
- Monitor damage rate relative to equipment utilization levels.

Yard & Gate Management

Insight

- Yard utilization is at 91.7 percent, approaching critical capacity levels.
- Congestion index indicates operational pressure.
- Remaining yard capacity is limited.

Recommendation

- Improve container turnover rate to free yard space.
- Optimize gate scheduling during peak periods.
- Establish monitoring thresholds when utilization exceeds 90 percent.

Equipment & Asset Performance

Insight

- Equipment utilization is moderate compared to available operating hours.
- Performance varies across equipment types.
- Idle percentage remains controlled.

Recommendation

- Reallocate equipment based on productivity levels.
- Focus on improving performance of underutilized asset types.
- Strengthen preventive maintenance planning.

Vessel & Berth Performance

Insight

- There is a clear performance gap between top-performing and bottom-performing vessels.
- Certain berths consistently show lower productivity levels.
- Turnaround time is stable but can be optimized.

Recommendation

- Adopt best practices from top-performing vessels.
- Review operational procedures in lower-performing berths.
- Target reduction in turnaround time during peak seasons.

Operational Efficiency

Insight

- Productivity is heavily driven by container vessels.
- Equipment productivity remains average.
- Truck processing time is consistent across ports.

Recommendation

- Increase productivity in lower-performing vessel classes.
- Improve coordination between vessel, berth, and equipment operations.
- Enhance overall cycle time management.